

ABSTRACT

There are provided, as a low noise amplifier (70) a low noise amplifier (71) with a low gain and a low noise amplifier (72) with a high gain, selectively operable under control of a bias current, and an output from the low noise amplifier (72) and a quadrature demodulator (80) are connected with a serial capacitance (73) and also an output from the low noise amplifier (71) and the quadrature demodulator (80) are serially connected. A control section (66) controls a reception circuit so that the low noise amplifier (71) operates when a reception signal level is high and the low noise amplifier (72) operates when the reception signal level is low. When the low noise amplifier (72) operates, a DC bias current thereof is made flow separately from a DC bias current of the quadrature demodulator (80), and, when the low noise amplifier (71) operates, a DC bias current thereof is shared with the quadrature demodulator.